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Eric M. Nelson

September 6, 2007

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

> Re: Title: METHOD AND APPARATUS FOR SIMULATING PHYSICAL FIELDS
> Letters Patent No. 7,124,069
> Issued: October 17, 2006
> Our Reference: IMEC215.001C1

Dear Sir:

Enclosed for filing is a Certificate of Correction in connection with the above-identified patent.

As certain of the errors cited in the Certificate of Correction were incurred through the fault of the Patent Office and Knobbe, Martens, Olson & Bear, LLP, the $100 fee will be paid via the EFS Web. However, please charge any additional fees to our Deposit Account No. 11-1410.

Respectfully submitted,

Knobbe, Martens, Olson & Bear, LLP

Eric M. Nelson
Registration No. 43,829
Customer No. 20995

Enclosures

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO.   : 7,124,069

APPLICATION NO.   : 10/630,439

ISSUE DATE   : October 17, 2006

INVENTOR(S)   : Meuris et al.

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column	Line	Description of Error
First Page Col. 2 (Other Publications)	2	Delete "differentail" and insert - - differential - -, therefor.
Page 2 Col. 1 (Other Publications)	2	Delete "differentail" and insert - - differential - -, therefor.
1	12	Delete "entirely;" and insert - - entirety; - -, therefor.
1	22	Delete "entirely." and insert - - entirety. - -, therefor.
7	13	Delete "suceptibility," and insert - - susceptibility, - -, therefor.
9	64	After "vector." delete "the" and insert - - **The** - -, therefor.
12	27 (Approx.)	Delete "sows" and insert - - shows - -, therefor.
13	5	After "direction" insert - - , - -.
18 (Equation 30)	43 (Approx.)	Delete " $-\nabla \cdot \left(e\nabla V + e\frac{\partial A}{\partial t} + e\frac{\partial \nabla \chi}{\partial t} \right) = \chi$ " and insert - - $-\nabla \cdot \left(\varepsilon\nabla V + \varepsilon\frac{\partial A}{\partial t} + \varepsilon\frac{\partial \nabla \chi}{\partial t} \right) = \rho$ - -, therefor.
18 (Equation 31)	46 (Approx.)	Delete " $J - e\frac{\partial}{\partial t}\left(\nabla V \right)$ " and insert - - $J - \varepsilon\frac{\partial}{\partial t}\left(\nabla V \right)$ - -, therefor.
18 (Equation 33)	61 (Approx.)	Delete " $\nabla \cdot \left(e\nabla V \right) = -\rho$ " and insert - - $\nabla \cdot \left(\varepsilon\nabla V \right) = -\rho$ - -, therefor.

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DOCKET NO. IMEC215.001C1

PTO/SB/44 Equivalent

PATENT NO.	: 7,124,069
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18 (Equation 34)	63 (Approx.)	Delete "$J - e\dfrac{\partial}{\partial t}\left(\nabla V\right.$" and insert -- $J - \varepsilon\dfrac{\partial}{\partial t}\left(\nabla V\right.$ --, therefor.
19	35	Delete "**co.**" and insert -- **ω.** --, therefor.
19 (Equation 36)	38 (Approx.)	Delete "$\nabla\cdot(e\nabla V) = -\rho$" and insert -- $\nabla\cdot(\varepsilon\nabla V) = -\rho$ --, therefor.
19 (Equation 37)	42 (Approx.)	Delete "$J - j\omega e\nabla V + e\omega^2 A + e\omega^2$" and insert $J - j\omega\varepsilon\nabla V + \varepsilon\omega^2 A + \varepsilon\omega^2\nabla\chi$ --, therefor.
19	66	Delete "ξ= ξ₀–ξe^{iωt}," and insert -- ξ= ξ₀–ξe^{iωt} --, therefor.
20 (Equation 50)	61 (Approx.)	Delete "$\nabla\cdot\left(e\nabla\hat{V}\right) - \hat{\rho} = 0$" and insert -- $\nabla\cdot\left(\varepsilon\nabla\hat{V}\right) - \hat{\rho} = 0$ --, therefor.
20 (Equation 51)	63 (Approx.)	Delete "$j\omega e\nabla\hat{V}$ --" and insert -- $j\omega\varepsilon\nabla\hat{V}$ --, therefor.
22 (Equation 66)	60	Delete "$\displaystyle\int_{\Delta L_{ij}}\nabla V\cdot dS \sim V_j - V_i$" and insert -- $\displaystyle\int_{\Delta L_{ij}}\nabla V\cdot dl \sim V_j - V_i$ --, therefor.
23 (Equation 67)	13 (Approx.)	Delete "$\sim \dfrac{\Lambda_{ij}}{\mu_0}A_{ij} + \displaystyle\sum_{kl}^{12}\dfrac{\Lambda_{ij}^{kl}}{\mu_0}A_{kl}$" and insert -- $\sim \dfrac{\Lambda_{ij}}{\mu_0}A_{ij} + \displaystyle\sum_{kl}^{12}\dfrac{\Lambda_{ij}^{kl}}{\mu_0}A_{kl}$ --, therefor.

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23 (Equation 68)	23 (Approx.)	Delete " $\int_{\Delta V_i} \nabla \cdot (e \nabla V) dv = \int_{\partial(\Delta V_i)} e \nabla V \cdot dS \sim \sum_{k}^{6} S_{ik} e_{ik} \frac{V_k - V_i}{h_{ik}}$ " and insert $$\int_{\Delta V_i} \nabla \cdot (e \nabla V) dv = \int_{\partial(\Delta V_i)} e \nabla V \cdot dS \sim \sum_{k}^{6} S_{ik} e_{ik} \frac{V_k - V_i}{h_{ik}}$$ -- , therefor.
23 (Equation 70)	44 (Approx.)	Delete " $\left(\nabla \cdot (e \nabla V) \right)$ " and insert -- $\left(\nabla \cdot (\varepsilon \nabla V) \right)$ --, therefor.
23 (Equation 73)	61 (Approx.)	Delete " $j\mu_0 S e_{ij} S_{ij}$ " and insert -- $j\mu_0 \omega \ \varepsilon_{ij} S_{ij}$ --, therefor.
23 (Equation 74)	65	Delete " $S_{ik} e_{ik}$ " and insert -- $S_{ik} \varepsilon_{ik}$ --, therefor.
24 (Equation 77)	21 (Approx.)	Delete " $-S_{ij}($ " and insert -- $-\sigma_{ij}($ --, therefor.
24 (Equation 80)	53 (Approx.)	Delete " $\frac{J_{ij}}{\mu_{ij}} = -\frac{a}{h_{ij}} B \left(\frac{-\beta_{ij}}{a} \right) c_i + \frac{a}{h_{ij}} B \left(\frac{\beta_{ij}}{a} \right) c_j$ " and insert -- $\frac{J_{ij}}{\mu_{ij}} = -\frac{a}{h_{ij}} B \left(\frac{-\beta_{ij}}{a} \right) c_i + \frac{a}{h_{ij}} B \left(\frac{\beta_{ij}}{a} \right) c_j$ --, therefor.
25	66 (Approx.)	Delete "FIG." and insert -- FIGS. --, therefor.
27	64 (Approx.)	Delete "Amperes" and insert -- Ampere's --, therefor.
27	66 (Approx.)	Delete " $=I^1$." and insert -- $=I^{(1)}$. --, therefor.
29	17	Delete "Hehnholtz" and insert -- Helmholtz --, therefor.
31	45 (Approx.)	Below "struct cubeListPointer *next;" insert -- }; --.
32 (Equation 94)	39 (Approx.)	Delete " $\nabla \times \nabla \times A_R - \mu_0 \epsilon \omega^2 A_R - \mu_0 \epsilon \omega \nabla$ " insert -- $\nabla \times \nabla \times A_R - \mu_0 \epsilon \omega^2 A_R - \mu_0 J_R - \mu_0 \epsilon \omega \nabla$ --, therefor.

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37	38	Delete "subtractions)=as" and insert - - subtractions) as - -, therefor.
38	20–21 (Approx.)	Delete "$\chi\hat{}O(10\text{-}14)$." and insert - - $\chi\hat{}O(10^{-14})$. - -, therefor.
38	54	Delete "$10^{-8}\Omega m^{-9}$." and insert - - $10^{-8}\Omega m$. - -, therefor.
39	31 (Approx.)	After "with" delete "**I**" and insert - - **I** - -, therefor.
39	34 (Approx.)	Delete "$L=[(\mu_0 In(b/a))/(2\pi)]$." and insert - - $L=[(\mu_0 In(b/a))/(2\pi)]$. - -, therefor.
42	9	Delete "^{189}," and insert - - I_{89}, - -, therefor.
42	17 (Approx.)	Delete "$d_7 x I_{19}$" and insert - - $d_7 + I_{19}$ - -, therefor.
43	26	Delete "$_2$**n**" and insert - - 2^n - -, therefor.
47	7 (Approx.)	Before "second" delete "the".
50	42 (Approx.)	Delete "succesive" and insert - - successive - -, therefor.
53	1	In Claim 9, delete "A apparatus" and insert - - A**n** apparatus - -, therefor.

3584686
032807

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